

## ABSTRACT

5       An electrical switch for connecting and breaking a circuit including a  
connecting and breaking mechanism for connecting and breaking the circuit  
provided with at least a set of movable contacts and stationary contacts; a  
electromagnetism drive mechanism for controlling the contacts to be actuated so  
as to realize closed circuit; a housing for accommodating the movable contact and  
stationary contact; an arc-extinguishing mechanism disposed in the housing and  
10       corresponded to the movable and stationary contact; a case connected to a base  
for accommodating the electromagnetism drive mechanism; a bedplate associated  
with the case; and a holding mechanism disposed on the bedplate for holding the  
contacts to connect the circuit, the electromagnetic holding mechanism is  
electromagnetic and has a set of electromagnetic attracting mechanism in which  
15       the movable iron core is made to be a pothook or a baffle mechanism, the movable  
iron core is attracted so that the pothook or baffle keeps the switch closed by  
means of hitching or ramming the movable bolt when the electromagnetic  
attracting mechanism is powered on. The electrical switch has a structure in which  
it has a breakaway mechanism using winding, in which the remanence being small  
20       and the feedback force being large and the action of the limiting current being rapid,  
it can break the large short current as air switch.

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